

# Taylor Winter

PHD CANDIDATE

☎ +64 22 171 1260 | ✉ [taylor.winter@vuw.ac.nz](mailto:taylor.winter@vuw.ac.nz)

## Summary

I am currently working toward my PhD at the University of Victoria at Wellington while also working as a Senior Data Scientist at New Zealand's national statistics agency (Statistics NZ). My main line of research in my PhD is devoted to investigating changes in authoritarianism under varying levels of threat due to COVID-19. Alongside my primary PhD focus, I actively investigate the minority stress framework that seeks to explain how experiences of discrimination result in poor psychological outcomes, such as Māori, sexual minorities, or both, e.g., takatāpui. More broadly, my research is concerned with the application of psychological methods and theory on research and interventions designed to promote health and wellbeing. Through my research and current work commitments, I have a broad range of experience in statistical methods including structural equation modeling, multilevel modeling, and Bayesian methods.

## Employment

<b>Statistics New Zealand</b> SENIOR DATA SCIENTIST	2019 - Present
<b>University of Otago</b> ASSISTANT RESEARCH FELLOW	2019 - 2020
<b>Te Runanga o Ngai Tahu</b> STATISTICIAN	2018 - 2019
<b>Statistics New Zealand</b> STATISTICAL ANALYST	2016 - 2019
<b>University of Otago</b> SENIOR RESEARCH ASSISTANT	2013 - 2016
<b>Queensland Department of Natural Resources and Mines</b> PROJECT OFFICER	2013 - 2015
<b>University of Otago</b> RESEARCH ASSISTANT	2012 - 2014

## Education

<b>Victoria University of Wellington</b> DOCTOR OF PHILOSOPHY	Wellington Present
<b>University of Otago</b> MASTER OF SCIENCE	Dunedin 2016

## Awards and scholarships

2018	IPANZ Young Professional Of The Year (Top 3)	Institute of Public Administration NZ
2018	Victoria Doctoral Scholarship	Victoria University of Wellington
2015	Otago Research Master's Scholarship	University of Otago

## Publications

- Winter, T., Jose, P., Riordan, B., Bizumic, B., Ruffman, T., Hunter, J., & Scarf, D. (n.d.). Left-wing support of authoritarian submission to protect against societal threat. *Scientific Reports*.
- Riordan, B., Winter, T., Flett, J., Scarf, D., Jose, P., & Conner, T. (n.d.). Does the fear of missing out (FoMO) moderate the relationship between social networking use and affect? A daily diary study. *Computers in Human Behavior*.
- Winter, T., Riordan, B., Surace, A., Scarf, D., & Jose, P. (2020). A tutorial on the use of informative bayesian priors for minority research. *Preprint: PsyArXiv*.

4. Zimmerman, H., Riordan, B., Winter, T., Bartonicek, A., & Scarf, D. (n.d.). Are new zealand psychology students more susceptible to essentialist explanations for mental illness? Neuroessentialism and mental illness stigma in psychology and non-psychology students. *New Zealand Journal of Psychology*.
5. Winter, T., Scarf, D., Riordan, B., Hunter, J., Tustin, K., Gollop, M., Taylor, N., Kokaua, J., & Poulton, R. (n.d.). A longitudinal study of mental wellbeing in students that transition into PhD study. *Frontiers in Psychology*.
6. Winter, T., Conner, T., & Jose, P. (2021). Methodological and conceptual complexities of assessing relationships between single-occasion CRP inflammation and daily affect. *Brain, Behavior, and Immunity - Health*.
7. Raubenheimer, J. E., Riordan, B. C., Merrill, J. E., Winter, T., Ward, R. M., Scarf, D., & Buckley, N. A. (2021). Hey google! Will new zealand vote to legalise cannabis? Using google trends data to predict the outcome of the 2020 new zealand cannabis referendum. *International Journal of Drug Policy*.
8. Winter, T., Riordan, B., Pakpour, A., Griffiths, M., Mason, A., Poulgrain, J., & Scarf, D. (2020). Evaluation of the english version of the fear of COVID-19 scale and its relationship with behavior change and political beliefs. *International Journal of Mental Health and Addiction*.
9. Riordan, B. C., Raubenheimer, J., Ward, R. M., Merrill, J. E., Winter, T., & Scarf, D. (2020). Monitoring the sentiment of cannabis-related tweets in the lead up to new zealands cannabis referendum. *Drug and Alcohol Review*.
10. Scarf, D., Zimmerman, H., Winter, T., Boden, H., Graham, S., Riordan, B. C., & Hunter, J. A. (2020). Association of viewing the films joker or terminator: Dark fate with prejudice toward individuals with mental illness. *JAMA Network Open*.
11. Graham, S., Mason, A., Riordan, B., Winter, T., & Scarf, D. (2020). Taking a break from social media improves wellbeing through sleep quality. *Cyberpsychology, Behavior, and Social Networking*.
12. Winter, T., Conner, T., & Jose, P. (2020). Identifying profiles of affective change: An ecological momentary assessment of flourishers. *Emotion*.
13. Trevis, K. J., McTavish, E., Winter, T., Fu, Y., McTavish, J., Wilson, B., Oliver, J., & Franz, E. A. (2019). Harnessing the brain's neuro-compensatory processes: Lessons from a high-functioning person with complete agenesis of the corpus callosum. *Neuropsychologie Clinique Et Appliquée*.
14. Winter, T., Riordan, B., & Surace, A. (2019). The relationship between hazardous alcohol use and discrimination among māori in aotearoa new zealand. *Addiction*.
15. Surace, A., Riordan, B., & Winter, T. (2019). Do new zealand sexual minorities engage in more hazardous drinking than non-sexual minorities? *Drug and Alcohol Review*.
16. Pittar, N., Winter, T., Falland-Cheung, L., Tong, D., & Waddell, J. N. (2018). Scalp simulation a novel approach to site-specific biomechanical modeling of the skin. *Journal of the Mechanical Behavior of Biomedical Materials*.
17. Falland-Cheung, L., Waddell, J. N., Lazarjan, M. S., Jermy, M. C., Winter, T., Tong, D., & Brunton, P. A. (2017). Use of agar/glycerol and agar/glycerol/water as a translucent brain simulant for ballistic testing. *Journal of the Mechanical Behavior of Biomedical Materials*.
18. Franz, E. A., Fu, Y., Moore, M., Winter, T., Mayne, T., Debnath, R., & Stringer, C. (2016). Fooling the brain by mirroring the hand: Brain correlates of the perceptual capture of limb ownership. *Restorative Neurology and Neuroscience*.
19. Tong, D. C., Winter, T. J., Jin, J., Bennett, A. C., & Waddell, J. N. (2015). Quantification of subconcussive impact forces to the head using a forensic model. *Journal of Clinical Neuroscience*.
20. Winter, T. J., & Franz, E. A. (2014). Implication of the anterior commissure in the allocation of attention to action. *Frontiers in Psychology*.

## **Presentations and posters**

**Authoritarian submission on the left and right during the covid-19 pandemic in New Zealand**

NEW ZEALAND PSYCHOLOGICAL SOCIETY CONFERENCE, WELLINGTON

2020

**Using overseas surveys to produce reliable models of sexual minorities**

NEW ZEALAND POPULATION CONFERENCE, WELLINGTON

2019

<b>Alcohol use disparities among gender and sexual minorities in New Zealand (Poster)</b>	2019
COLLABORATIVE PERSPECTIVES ON ADDICTION, RHODE ISLAND	
<b>Iwi data tool using integrated data and R Shiny</b>	2017
IWI DATA CONFERENCE, CHRISTCHURCH	
<b>Using data to support a collective impact model of Maori potential</b>	2016
POPULATION ASSOCIATION OF NEW ZEALAND CONFERENCE, CHRISTCHURCH	
<b>The effect of motherhood on income</b>	2016
NEW ZEALAND ASSOCIATION OF ECONOMISTS CONFERENCE, WELLINGTON	
<b>A machine learning approach to classifying life course outcomes</b>	2016
LONGITUDINAL AND MULTIVARIATE ANALYSIS NETWORK (STATS NZ), WELLINGTON	
<b>Methodology for comparing incomes between parents and non-parents</b>	2016
STATISTICAL METHODS SEMINAR (STATS NZ), WELLINGTON	
<b>Inter-hemispheric inhibition in the autistic brain</b>	2014
NEUROETHICS SEMINAR, DUNEDIN	

## Skills

---

- Knowledge of Tikanga Māori
- Health psychology research
- Social psychology research
- Research design and analysis
- Structural equation modelling and causal analysis
- Bayesian statistics and multi-level modelling
- Machine learning techniques such as random forests and neural nets
- Teaching reproducible research practices and statistics